### **CSS & TYPOGRAPHY**

Typography?

**SoftUni Team Technical Trainers** 







Software University <a href="https://softuni.bg">https://softuni.bg</a>

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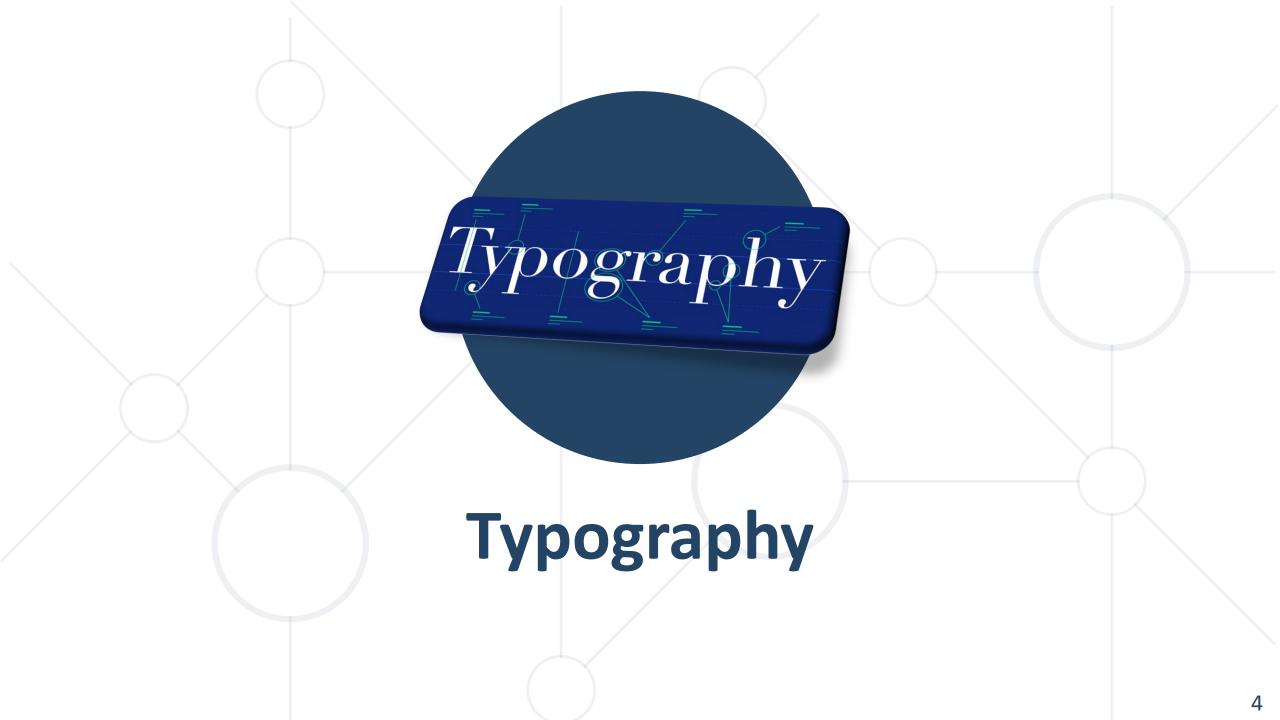


#### Have a Question?





# #HTIVIL-CSS



#### What is Typography?



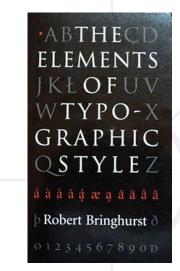


- Typography is the art and technique of arranging type to make written language legible, readable and appealing when displayed
- Typography is the visual component of the written word
- Style or appearance of text
- The art of working with text

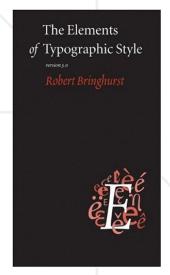
#### Books



The Elements of Typographic Style –
 the authoritative book on typography
 and style



The Elements of Typographic Style
 Applied to the Web – a practical guide to web typography







### **Principles Of Readability**



- Readability is one of the more important aspects of Web design usability
- Website readability is a measure of how easy it is for visitors to read and understand online text
- Readability depends on both a text's presentation and its context
- Poor readability scares readers away from the content

### **Principles Of Readability**



- Hierarchy defines how to read through content
- Contrast the core factor in whether or not text is easy to read
- Line Height the space between individual lines of text
- Letter Spacing the space between each letter in words
- Line Length the number of words per line

### Keys to Readable Typography



- User-Friendly Headers
- Scannable Text
- White Space
- Consistency
- Density of Text
- Emphasis of Important Elements
- Organization of Information
- Good Margins



#### Font Family



- The font-family property specifies the font for an element
- Each font-family property lists one or more font families,
   separated by commas

```
body {
  font-family: <family-name>, <generic-name>;
}
```

If the browser does not support the first font, it tries the next font

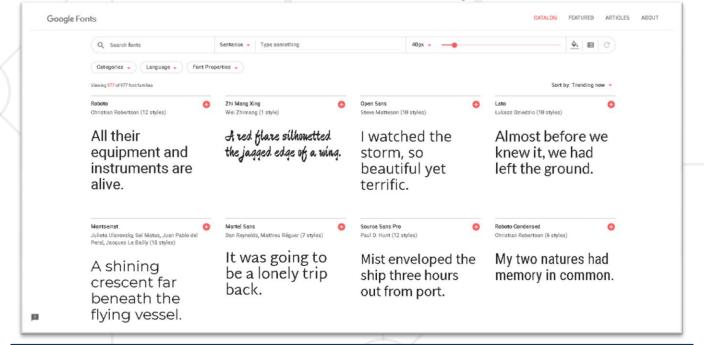
```
body {
   font-family: Ariel, Helvetica, sans-serif;
}
```

### Family Name



<family-name> – the name of a font-family, like "Times" and "Helvetica"

If a font name contains white-space, it must be quoted



https://fonts.google.com/

#### **Generic Name**



- <generic-name> a broad class of similar fonts used in a prioritized list of fonts
  - serif all characters have stroke endings
  - sans-serif no character has stroke endings
  - monospace all characters have the same width
  - cursive handwritten fonts
  - fantasy decorative fonts

Serif

Sans-serif

Monospace

Cursive

Fantasy

#### **Font Style**



- Font-style defines how much the text is slanted
  - normal the text is not slanted

```
p {
   font-style: normal;
}
```

italic – the letters are slightly slanted

```
p {
    font-style: italic;
}
```

Normal font style
Italic font style
Oblique font style

oblique – the letters are more slanted than italic

```
p {
   font-style: oblique;
}
```

#### **Font Size**



- Font-size defines the text size
  - Pixel values

```
p {
   font-size: 16px;
}
```

 Em values – the value is relative to the parent's font-size

```
p {
  font-size: 1.2em;
}
```



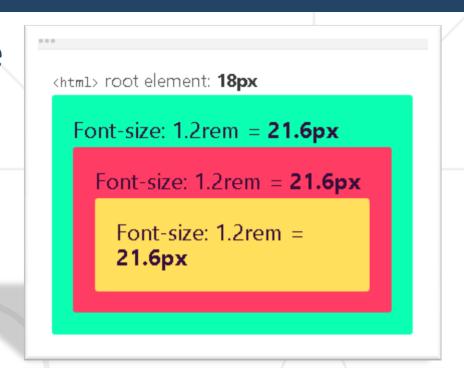
#### **Font Size**



```
p {
  font-size: 1.2rem;
}
```

Percentage values – they act like em values

```
p {
    font-size: 90%;
}
```



```
Parent container: 18px

Font-size: 90% = 16.2

Font-size: 90% = 14.58px

Font-size: 90% = 13.122px
```

#### **Font Weight**



Font-weight – defines the weight of the text

normal – the text is in normal weight

```
p {
    font-weight: normal;
}
```

Hello world

bold – the text becomes bold

```
p {
   font-weight: bold;
}
```

Hello world

#### **Font Weight**



numeric values

```
p {
font-weight: 500;
}
```

• They all correspond to a particular named weight:

100 – Thin 600 – Semi Bold

200 – Extra Light 700 - Bold

300 – Light 800 – Extra Bold

400 – Normal 900 – Ultra Bold

500 - Medium

### Line Height



- Line-height defines the height of a single line of text
  - Default value reverts to the default value of the browser

```
p {
    line-height: normal;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

Unitless values – the line height will be relative to the font size

```
p {
    line-height: 1.6;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

#### **Letter Spacing**



 Letter-spacing – defines the spacing between the characters of a block of text

Normal – the spacing between the characters is normal

```
p {
  letter-spacing: normal;
}
```

Using pixel or em values

```
p {
  letter-spacing: 2px;
}
```

```
p {
    letter-spacing: 0.1em;
}
```

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

#### Text align



- Text-align defines how the content of the element is horizontally aligned
  - Left

```
p {
   text-align: left;
}
```

Right

```
p {
  text-align: right;
}
```

#### Hello world

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

#### Hello world

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

### Text align



#### Center

```
p {
   text-align: center;
}
```

### Justify

```
p {
   text-align: justify;
}
```

#### ---

#### Hello world

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

#### Hello world

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

#### **Text decoration**



- Text-decoration defines how the text content of the element is decorated
  - None removes any text decoration

```
p {
  text-decoration: none;
}
```

Underline – underlines the text content

```
p {
  text-decoration: underline;
}
```



Hello world

#### **Text indent**



- Text-indent defines the indentation of the element's first line of text
  - The text is not indented

```
p {
  text-indent: 0;
}
```

The text is indented

```
p {
   text-indent: 40px;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

#### **Text overflow**



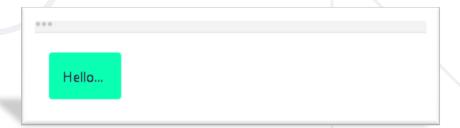
- Text-overflow defines how the hidden text content behaves if it's overflowing
  - Clip the text content is clipped and not accessible

```
p {
   text-overflow: clip;
}
```



Ellipsis – the overflowing content is replaced by ...

```
p {
   text-overflow: ellipsis;
}
```



#### **Text transform**



- Text-transform defines how the text content should be transformed
  - None default value

```
p {
  text-transform: none;
}
```

 Capitalize – turns the first letter of each word into a capital letter

```
p {
  text-transform: capitalize;
}
```

#### Hello world!

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

#### Hello World!

Lorem Ipsum Dolor Sit Amet, Consectetur Adipiscing Elit. Etiam Semper Diam At Erat Pulvinar, At Pulvinar Felis Blandit. Vestibulum Volutpat Tellus Diam, Consequat Gravida Libero Rhoncus Ut. Maecenas Imperdiet Felis Nisi, Fringilla Luctus Felis Hendrerit Sit Amet.

#### **Text transform**



Uppercase – turns all letters into capital letters

```
p {
   text-transform: uppercase;
}
```

 Lowercase – turns all letters into lowercase latters

```
p {
    text-transform: capitalize;
}
```

#### HELLO WORLD!

LOREM IPSUM DOLOR SIT AMET, CONSECTETUR
ADIPISCING ELIT. ETIAM SEMPER DIAM AT ERAT
PULVINAR, AT PULVINAR FELIS BLANDIT. VESTIBULUM
VOLUTPAT TELLUS DIAM, CONSEQUAT GRAVIDA LIBERO
RHONCUS UT. MAECENAS IMPERDIET FELIS NISI,
FRINGILLA LUCTUS FELIS HENDRERIT SIT AMET.

#### hello world!

lorem ipsum dolor sit amet, consectetur adipiscing elit.
etiam semper diam at erat pulvinar, at pulvinar felis
blandit. vestibulum volutpat tellus diam, consequat gravida
libero rhoncus ut. maecenas imperdiet felis nisi, fringilla
luctus felis hendrerit sit amet.

#### Word break



- Word break defines how words should break when reaching the end of line
  - Normal words with no space will not break

```
p {
    word-break: normal;
}

Thequickbrownfoxjumpsoverthelazydog
```

 Break-all – words with no space will break as soon as they reach the end of a line

```
p {
  word-break: break-all;
}
```

Thequickbrownfoxjumpsoverthe lazydog

#### Text shadow



- Text-shadow defines the shadow of the text content
  - None the text content has no shadow.

```
p {
   text-shadow: none;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

Text-shadow: <horizontal> <vertical> <blur> <color>

```
p {
   text-shadow: 2px 4px 10px red;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

#### **Text color**



- Color defines the color of the text
  - Transparent

```
p {
  color: transparent;
}
```

You can use one of the 140+ color names

```
p {
    color: red;
}
```

Hello world

#### **Text color**



You can use hexadecimal color codes

```
p {
    color: #05ffb0;
}
```

Hello world

You can use rgb() color codes

```
p {
    color: rgb(50, 115, 220);
}
```

Hello world

You can use rgba() color codes

```
p {
    color: rgb(0, 0, 0, 0.5);
}
```



### Background color



- Background-color defines the color of the element's background
  - Transparent

```
p {
   background-color: transparent;
}
```

Hello World

Color

```
p {
    background-color: red;
}
```



#### Cursor



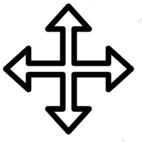
- Cursor Sets the mouse cursor when hovering the element
  - Pointer

```
p {
    cursor: pointer
}
```



#### Move

```
p {
    cursor: move;
}
```



#### **Outline**

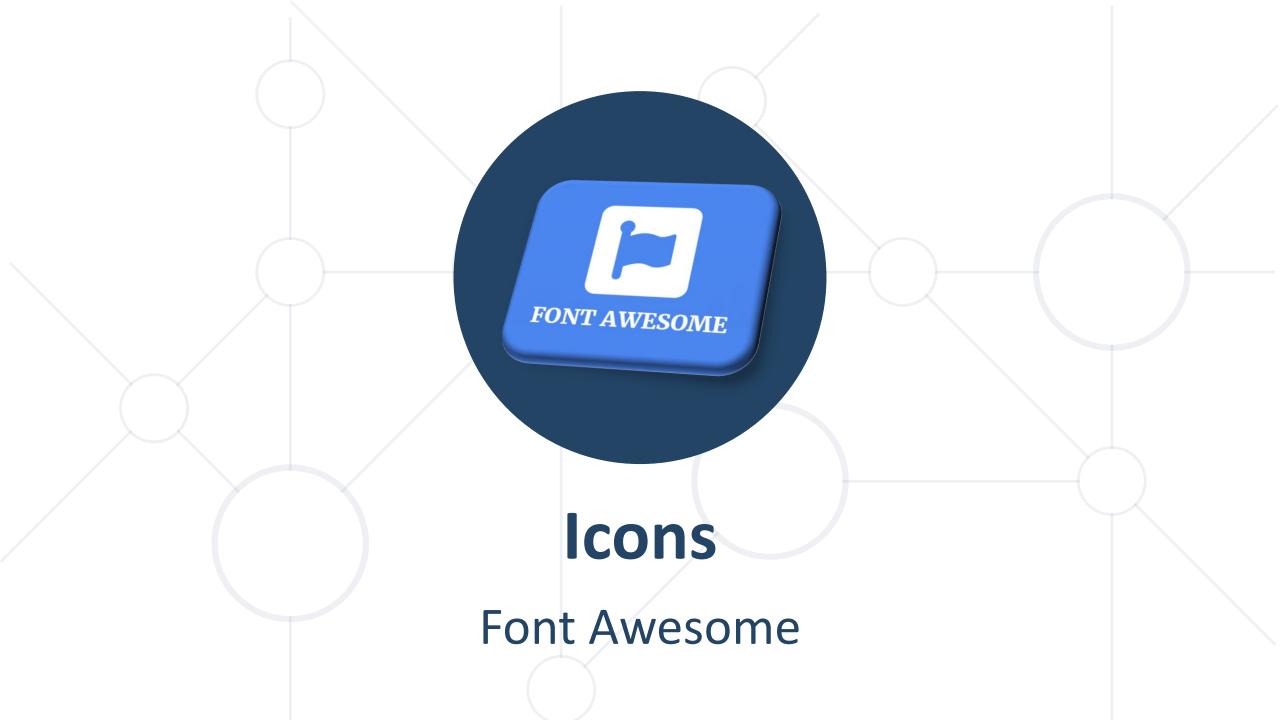


#### Outline

- Outline-width defines the width of the element's outlines
- Outline-style defines the style of the element's outlines
- Outline-color defines the color of the element's outlines

```
p {
  outline: 4px dotted red;
}
```





#### **Form Awesome**



To use the Font Awesome icons, add the following line inside the <head> section of your HTML file:

```
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.12.1/css/all.css">
```

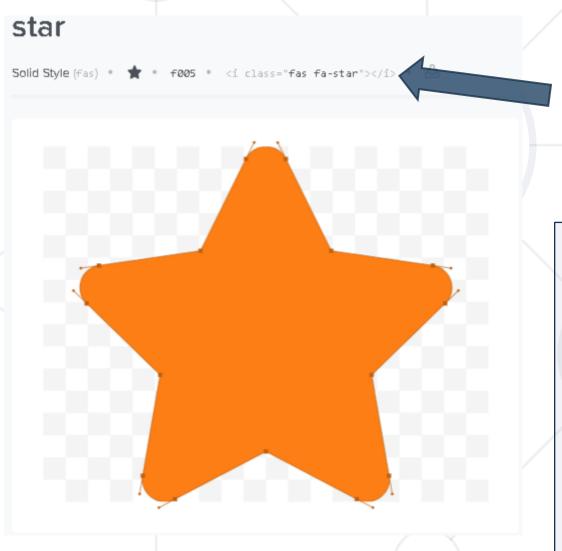
Import Font Awesome in the css file:

```
@import 'https://use.fontawesome.com/releases/v5.12.1/css/all.css';
```

Font Awesome is designed to be used with inline elements. The
 and <span> elements are widely used for icons

#### **Font Awesome Example**





- Choose an icon
- Copy the <i> element
- Paste it in your HTML file

#### Summary



- What is Typography?
- The principles of readability
- CSS properties: font-family, font-size, font-style, color, background
- Font Awesome Icons



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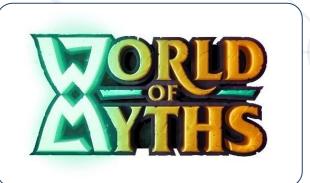
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## Questions?

















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